

CLAIMS

I claim:

1 1. An apparatus for measuring differences in transmission
2 of light through a lens of an eye of a patient, comprising:

3 a chart having a test section displaying a selected shade
4 of a test color and a reference section displaying a spectrum of
5 shades of the test color including the selected shade;

6 means for uniquely identifying each of the shades displayed
7 in the spectrum of the reference section;

8 means for illuminating the chart; and

9 means for displaying the chart.

1 2. The apparatus for measuring differences according to
2 claim 1, said means for uniquely identifying comprises a unique
3 identifying indicia disposed on each of the shades of the
4 spectrum.

1 3. The apparatus for measuring differences according to
2 claim 1, further comprising a Snellen chart disposed on said
3 chart.

1 4. The apparatus for measuring differences according to
2 claim 1, wherein said means for illuminating comprises a
3 constant intensity light source.

1 5. The apparatus for measuring differences according to
2 claim 4, wherein said means for illuminating further comprises a
3 variable intensity light source.

1 6. The apparatus for measuring differences according to
2 claim 5, wherein said variable intensity light source includes a
3 dimmer.

1 7. The apparatus for measuring differences according to
2 claim 1, wherein said means for displaying said chart comprises
3 an illumination cabinet.

1 8. The apparatus for measuring differences according to
2 claim 1, wherein said means for displaying said chart comprises
3 an enclosed box.

1 9. An apparatus for measuring differences in transmission
2 of light through a lens of an eye, comprising:

3 a chart having a test section displaying a first shade of a
4 test color and a reference section displaying a second shade of
5 the test color different from the first shade;

6 a first light source for illuminating the test section;

7 a second light source for illuminating the reference
8 section, the second light source including means for varying
9 illumination intensity produced by the light source; and

10 means for displaying the chart.

1 10. The apparatus for measuring differences according to
2 claim 9, wherein said first light source comprises a constant
3 intensity light source.

1 11. The apparatus for measuring differences according to
2 claim 10, wherein said second light source comprises a variable
3 intensity light source.

1 12. The apparatus for measuring differences according to
2 claim 11, wherein said variable light source includes a dimmer.

1 13. The apparatus for measuring differences according to
2 claim 11, wherein said second light source comprises a plurality
3 of constant intensity light sources of different intensities and
4 at least one light switch electrically connected to said
5 plurality of light sources for electrically switching one of the
6 light switches on at a time.

1 14. The apparatus for measuring differences according to
2 claim 9, wherein said means for displaying comprises a display
3 box.

1 15. The apparatus for measuring differences according to
2 claim 9, wherein said first light source comprises a variable
3 intensity light source in order to adjust the test color to any
4 desired shade.

1 16. A method for measuring differences in transmission of
2 light through a lens of an eye of a patient, comprising the
3 steps of:

4 displaying a chart having a test section and a reference
5 section, the test section displaying a shade of a test color and
6 the reference section displaying a spectrum of shades of the
7 test color identified by a unique indicia;

8 illuminating the test section and the reference section
9 with at least one light source;

10 instructing the patient to match the shade of the test
11 color shown in the test section to one of the shades of the
12 spectrum of the reference section; and

13 recording the shade from the reference section selected by
14 the patient.

1 17. The method for measuring differences according to
2 claim 16, wherein said at least one light source comprises a
3 variable intensity light source; the method further comprising
4 the step of adjusting the intensity of light illuminating the
5 test section to a desired shade of the spectrum.